

**The Ohio State University**  
**Colleges of the Arts and Sciences New Course Request**

Statistics

Academic Unit

Statistics

Book 3 Listing (e.g., Portuguese)

652 Applied Statistical Analysis with Missing Data

Number Title

Missing Data G 4

18-Character Title Abbreviation Level Credit Hours

Summer Autumn X Winter Spring Year 2009

Proposed effective date, choose one quarter and put an "X" after it; and fill in the year. See the OAA curriculum manual for deadlines.

**A. Course Offerings Bulletin Information**

Follow the instructions in the OAA curriculum manual. If this is a course with decimal subdivisions, then use one New Course Request form for the generic information that will apply to all subdivisions; and use separate forms for each new decimal subdivision, including on each form the information that is unique to that subdivision. If the course offered is less than a quarter or a term, please complete the Flexibly Scheduled/Off Campus/Workshop Request form.

Description (*not to exceed 25 words*): Models and methods for the dataset with missing values, including imputation, and likelihood and Bayesian based models.

Quarter offered: Autumn Distribution of class time/contact hours: 2 2-hr cl.

Quarter and contact/class time hours information should be omitted from Book 3 publication (yes or no): no

Prerequisite(s): PH-BIO 703, STAT 529 or equivalent or permission of the instructor. Knowledge of regression and familiarity with a statistical computing package.

Exclusion or limiting clause: PH-BIO 652

Repeatable to a maximum of 0 credit hours.

Cross-listed with: PH-BIO 652

Grade Option (Please check): Letter  S/U  Progress  What course is last in the series? \_\_\_\_\_

Honors Statement: Yes  No  GEC: Yes  No  Admission Condition  
 Off-Campus: Yes  No  EM: Yes  No  Course: Yes  No

Embedded Honors Statement: Yes  No

Service Learning Course\*: Yes  No  \*To learn more about this option, please visit <http://artsandsciences.osu.edu/currofc/>

Other General Course Information:

(e.g. "Taught in English." "Credit does not count toward BSBA degree.")

**B. General Information**

Subject Code 27.0501

Subsidy Level (V, G, T, B, M, D, or

P) \_\_\_\_\_

If you have questions, please email Jed Dickhaut at [dickhaut.1@osu.edu](mailto:dickhaut.1@osu.edu).

1. Provide the rationale for proposing this course:

This course is intended to introduce Masters and Doctoral students to methods and models used to analyze data sets with missing data. Most analytical courses focus on methods and models for complete data sets, but in practice many data sets are not complete. This course will extend already familiar complete-data methods to be useful in the incomplete-data situation.

2. Please list Majors/Minors affected by the creation of this new course. Attach revisions of all affected programs. This course is (check one):  Required on major(s)/minor(s)  A choice on major(s)/minors(s)  An elective within major(s)/minor(s)  A general elective:

3. Indicate the nature of the program adjustments, new funding, and/or withdrawals that make possible the implementation of this new course.

We expect adequate enrollment to fund this course through tuition subsidies passed back to the TIU of the course instructor.

4. Is the approval of this request contingent upon the approval of other course requests or curricular requests?

Yes  No  List: Cross-listed with PH-BIO 652

5. If this course is part of a sequence, list the number of the other course(s) in the sequence: \_\_\_\_\_

6. Expected section size: 35 Proposed number of sections per year: 1

7. Do you want prerequisites enforced electronically (see OAA manual for what can be enforced)? Yes  No

8. This course has been discussed with and has the concurrence of the following academic units needing this course or with academic units having directly related interests (*List units and attach letters and/or forms*):

Not Applicable

College of Public Health Biostatistics Division

Will be offered as PH-BIO 652 or STAT 652 in alternate years starting in Autumn 2008

9. Attach a course syllabus that includes a topical outline of the course, student learning outcomes and/or course objectives, off-campus field experience, methods of evaluation, and other items as stated in the OAA curriculum manual and e-mail to [asccurrofc@osu.edu](mailto:asccurrofc@osu.edu).

**Approval Process** The signatures on the lines in ALL CAPS ( e.g. ACADEMIC UNIT) are required.

1. Academic Unit Undergraduate Studies Committee Chair	Printed Name	Date
<u>Elizabeth A. Stasny</u>	<u>ELIZABETH A. STASNY</u>	<u>4-11-08</u>
2. Academic Unit Graduate Studies Committee Chair	Printed Name	Date
<u>Douglas A. Wolfe</u>	<u>Douglas A. Wolfe</u>	<u>4/11/08</u>
3. ACADEMIC UNIT CHAIR/DIRECTOR	Printed Name	Date

4. After the Academic Unit Chair/Director signs the request, forward the form to the ASC Curriculum Office, 4132 Smith Lab, 174 West 18<sup>th</sup> Ave. or fax it to 688-5678. Attach the syllabus and any supporting documentation in an e-mail to [ascurofc@osu.edu](mailto:ascurofc@osu.edu). The ASC Curriculum Office will forward the request to the appropriate committee.

5. COLLEGE CURRICULUM COMMITTEE	Printed Name	Date
6. ARTS AND SCIENCES EXECUTIVE DEAN	Printed Name	Date
7. Graduate School (if appropriate)	Printed Name	Date
8. University Honors Center (if appropriate)	Printed Name	Date
9. Office of International Education (if appropriate)	Printed Name	Date
10. ACADEMIC AFFAIRS	Printed Name	Date